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IN THIS ISSUE

### ACTICAL ENGINEERING FROTOR-WING CRAFT

aul Stanley inauguates most important eries on helicopter dean and construction. esenting much hithto unpublished basic nformation.

### SOLDIER BEWARE!

**Smely warning and** ound appraisal for als who plan to invest seir time and money this flying game.

OR QUIETER AIRPLANES onvair's K. R. Jackman preents new methods and tools combat the noise problem and thus increase aircraft omfort and utility.

## SUPERSONIC AIRPLANES

### ARE HERE

AF reveals imminent assault n'transonic barrier, also anounces series of jet bombers nder development.

### WHAT PRICE

### RECONVERSION?

our Financial Editor checks he status of the aircraft anufacturing industry, anaraing this year's earnings po-Inpela ... First of a two-part

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# Dependable Power for Both

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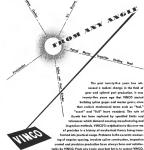
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# This Fateful Atom ... can Serve Man ...

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2 CHAIN REACTION Francests from earlier nacker evelopings smoch other marks



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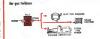
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9 PRACTICAL APPLICATIONS behale steam for turbines, process and comfort heating-olso heat





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- 4. Annual 9, 2015, Aponio bomb
- Sarth Beneri on "Mounte Sau easy for Military Proposes."
- 7. November 15, 1915, Trumor-
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PRIVATE VS. PUBLIC

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### SOLDIER REWARE

By KENNETH P. MarDONALD Name Andre Combant

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AVIATION, July, 1986

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### WILL GLIDERS CLOSE SOUTH AMERICA'S TRANSPORT GAP?

By GEORGE M. GALSTER, John American Anniest

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## Why Not Check Lists For Private Pilots?

### By WILLIS L. NYE

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## War-Baby Flight School Becomes Focal Servicing Base

As AAF Night codet school, begins 120 primary trainers, shut down after kactilities and seemed destined to become a "ghest airport". But then Operator Broarly Haward test a chases—and a lense—as the field's facilities and utilizing worthwo-learned maintenance lessees, is now enjoying an expanding business, using the field as a control base for his awa exerctions and for servicing transients with seption and repairs

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### AVIATION'S MAINTENANCE NOTEBOOK



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### Mobile Reach Cerries

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### SOURSEONS MAINTENANTE POTEROGS





Instrument Prossure Chamber Febricated From Iron Pipe



...and we at Solar are all for you.

LIKE the Facelinaston, who fid place from the wilderness, the returned G4, descends today

Solar wishes success to every single one, because Solar, 100, is a troubet of the American War ... both and rained always greated each individual the right to rise above a gives station... to follow his videa, ... to suffer his own ples as which this country roto make this possible. The G.2 of takes, starting afresh, has his choice-to enter handness for hierarly - or to join an established arress. comes. If he elects to start his even horizons, then he must take the responsibility of consensity and authority. As most swamp the risk of lesing his revealment.

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STAINIESS DRODUCTS

# ATLAST! A GEAR PUMP FOR 3000 P.S.I. AIRCRAFT HYDRAULIC SYSTEMS



Yes, it's here NOFT A gent type aircraft level-sails passo that will coverage with encursoral efficiency at present on to 3000 p.s.i. A court that or queter and smoother in operation and will countrie more satisfactorile at higher abittadathan one many that PESOO becover made. And We Prevage Loaded . . . an enclusive PERCY development which excessively emphysics prineasing possible continuous high operating offimences over a wide regar of allegate and term-

This new PESCO pump for operation of wine

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# It lands on both water and solid runways

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**B.F.Goodrich** 

AVEATION, July, 1906

Rode to \$5200 Sed.





THE TINKEN ROLLER BEARING COMPANY, CANTON 6, OHIO

### THUS NO. 2007 AVIATION THE 1867.

# PRACTICAL ENGINEERING OF ROTARY WING AIRCRAFT

PART /

In this first of a comprehensive series of excipous contented with problems of reducerally duelogs, the author presents details of Yorkmental lamouloge quitted from the development of the onlysists, nolows principles employed is successful legalors, offers predictions beening as facilities to the content of the content of the problems of the content of the con

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AVEATION, July, 1948

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Table 18 - Calculation of Torque element by MalaDales Helasyter Bades

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Table V — Calculation of Normal Smallest Standard Sciences in Hebranics Blade 21 S. W. 2.50 St. Sciences 42.21 St. Pater by 19 Sector condensed second 195 man; 195 or of the 666 shall now





AVIATION, July, 1918



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Loon formed 12 200 o 21 cept o West highly straved fibers, from the

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A resident on Appellon Espera ES



# POSITIVE ACTION LUBE SYSTEM PROVED FOR GOODYEAR F2G

By T. S. Kapelies, Anna square control control on Outlined here are construction details and advertages of sevel ellter installation, associately developed to trench entergraphs flow dev-

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## Supersonic Plane and Jet Bombers Revealed by Army Air Forces

Spearhending drive for research funds and \$600,000,000 engineering development center, Army dississes existence of Bell XS-I, designed

XB-65, Consolidated Value XB-66, Bontaken abelt and operated to a glader to

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1,000 his with 2,000 kg parload	203	Booing 5-29	M. E. M. Grabowski	221.5	Junkon Ju-55	Eren Selvet. Germanyl
1,000 km wells 10,000 kg perioad	355	Dunny S-29	Cupt. J. D. Stanleys	207	Seron Marketti SM TS	N Proto-G Zertocca (Italy)
9,000 km, with 10,000 kg periods	356	Dating D-29	Capt. J. D. Herlen	905	Saveta-Marchisto SM-33	N Prote-G.
Habrepter directors—		Skunky R-6	Lt Wor L Varreda- Lt K R R Steen	1.32	V9-000	her Shoeky (U.S.)
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## BRITISH AIRLINER PRESSURIZATION INITIATED ON TUDOR I

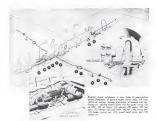
Here are details of this new airliner's high-fight ashle-conditioning appearatus comprising a combined breating and ventileties system. Also leties of graff's cobin design.

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## See Promise in Low-Density Core For Aircraft Laminate Components

By R. E. MAIER, Chemistr Str., Floring Sept. E. J. de Fort de Nameur & Co. metal, or electricity force to provide elected units offering interests ies possibilities. Here are details of supported explication, febrica-



AVEATON, Jun. 1946

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AMERICAN PROPERTY OF THE REAL PROPERTY.

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Fig. 4. Indicated done is application of EEA on your meterial for physical or materialized indicapter sub-horpes rater Media, in the contribution persons of CCA cone it he effect

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AVIATION, July, 1946

# Roller-Mounted Maps Expedite Position Finding

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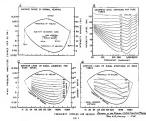
# AIRCRAFT ACOUSTICAL PROBLEMS AND POSSIBLE SOLUTIONS

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By K. R. JACKMAN, One for traver. Considered Kates Ancast Corp. See Bross. Here is a new approach to the appendix sales bugstee, an approach which brings new tools for increasing passenger confert and electraft stilly in the treasport, military, and persons place Solids.

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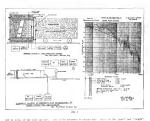
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# Profits Balanced By Reconversion Costs

By RATHOND I MOADLEY bearing and approxi-

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#### FLYING EQUIPMENT



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AVEATION, July, 1940

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Improved Funk Two-Placer Goes Into Production

Model F28, powered by 85-hs. Gastinestal, has 100-mah, craising speed . . . Creft has many "extres" on its standard againment list.









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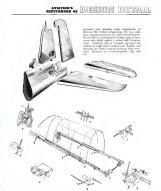
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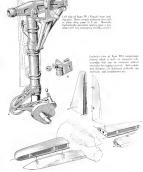
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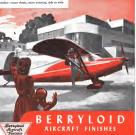
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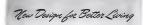
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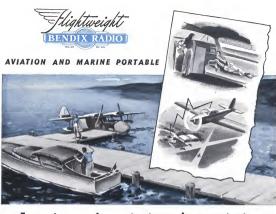








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